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A list of Ottawa Eriophorum is given by Macoun in *The Ottawa Naturalist* for May.

Papers on Calamagrostis, by Forges and Lehbort, with spikelet illustrations, are contained in the *Mitteilungen des thüringischen botanischen Vereins*, n. f., heft 20.

Enzyme-poison production in Zea is noted by Price in *Circular no. 84* of the Bureau of Animal Industry, U. S. Department of Agriculture.

An account of the poisoning of horses in South Africa by *Ornithogalum thyrsoides* is given by Hutcheon in the *Agricultural Journal of the Cape of Good Hope* for February; and Delphinium and other stock-poisoning plants of Colorado form the subject of *Bulletin 113* of the Experiment Station of that State, by Glover.

The natural replacement of *Pinus strobus* in old fields in New England is the subject of *Bulletin no. 63*, Bureau of Forestry, U. S. Department of Agriculture, by Spring.

A practical little book on *Ferns and How to Grow Them*, by Woolson, has been issued from the Doubleday Page press of New York.

A new segregate of the *ternatum* group of Botrychium is published by Maxon, under the name *B. alabamense* in a leaflet of the *Proceedings of the Biological Society of Washington*, issued on February 26.

Léveillé notes the occurrence of *Azolla caroliniana* in China, in the February-March fascicle of the *Bulletin de l'Académie Internationale de Géographie Botanique*.

The Journals.—*Botanical Gazette*, February: — Fulton, "Chemotropism of Fungi"; Lewis, "The Embryology and Development of *Riccia lutescens* and *Riccia crystallina*"; Livingston, "Note on the Relation Between Growth of Roots and of Tops in Wheat."

Botanical Gazette, March: — Simons, "A Morphological Study of *Sargassum filipendula*"; Schaffner, "Chromosome Reduction in the Microsporocytes of *Lilium tigrinum*"; Olive, "Cytological Studies on the Entomophthoræ — I"; Ganong, "New Normal Appliances for Use in Plant Physiology — III."

Botanical Gazette, April: — Olive, "Cytological Studies on the Entomophthoræ — II"; Spalding, "Biological Relations of Desert Shrubs — II"; Eastwood, "New Species of Californian Plants"; Hitchcock, "Notes on North American Grasses — VI."

The Bryologist, March: — Fink, "Further Notes on Cladonias — VI"; Grout, "Additions to the Bryophyte Flora of Long Island"; Holzinger, "*Grimmia glauca* — a New Species or a Hybrid"; Howe, "*Ramalina rigida* on the Rhode Island Coast"; Hill, "*Encalypta procera* — a Correction"; Watts, "Australian Mosses — Some Locality Pictures."

The Bryologist, May: — Britton, "Notes on Nomenclature — VI"; Watts, "Australian Mosses — Some Locality Pictures"; Grout, "Bryological Notes"; Howe, "Some Lichens of Mt. Watatic, Mass."; Harris, "A List of Folioseous and Fruticose Lichens Collected at Chilson Lake, Essex Co., N. Y."; Howe, "*Ramalina rigida* in Mass."; Towle, "Notes on the Life History of the Mniums."

Bulletin of the Southern California Academy of Sciences, December, 1905: — P[arish], "*Cereus giganteus* in California"; Hasse, "A Few Lichens picked up on San Jacinto Mountain"; Parish, "A Preliminary Synopsis of the Southern California Cyperaceæ — VIII."

Bulletin of the Southern California Academy of Sciences, March: — Davidson, "A Revision of the Western *Mentzelias*"; Parish, "A Preliminary Synopsis of the Southern California Cyperaceæ — XI"; Grant, "Wheelerella."

Bulletin of the Torrey Botanical Club, February: — Selby, "Studies in Etiolation"; Kraemer, "Studies on Color in Plants"; Randolph, "The Influence of Moisture upon the Formation of Roots by Cuttings of Ivy"; Underwood and Lloyd, "The Species of *Lycopodium* of the American Tropics."

Bulletin of the Torrey Botanical Club, March: — Evans, "The Hepaticæ of Bermuda"; Rydberg, "Studies on the Rocky Mountain Flora — XVI"; Berry, "Contributions to the Mesozoic Flora of the Atlantic Coastal Plain — I"; Gleason, "The Genus *Vernonia* in the Bahamas"; Underwood, "American Ferns — VI, Species Added to the Flora of the United States from 1900 to 1905."

Bulletin of the Torrey Botanical Club, April: — Peck, "New Species of Fungi"; Harris, "The Anomalous Anther-Structure of *Dicorynia*, *Duparquetia*, and *Strumpfia*"; Harper, "Some New or Otherwise Noteworthy Plants from the Coastal Plain of Georgia"; Stockard, "Cytological Changes accompanying Secretion in the Nectar-Glands of *Vicia faba*."

The Fern Bulletin, January: — Bissell, "The Fern Flora of Connecticut"; Davenport, "*Botrychium matricariæfolium*"; Durand,

"Sporangial Trichomes"; Clute, "Tropical Ferns in Southern States"; Hazen, "*Dryopteris filix-mas* in Vt."

The Fern Bulletin, April: — Gilbert, "*Polypodium vulgare* and its Varieties in America"; Rooney, "The Resting of *Botrychium*"; Clute, "The Forms of the Cinnamon Fern"; Dukes, "An Alabama Station for *Botrychium biternatum*"; Clute, "The Author Citation"; Winslow, "The Distribution of *Botrychia*"; Clute, "*Polypodium piloselloides*."

Journal of Mycology, January: — Morgan, "North American Species of *Marasmius*" (*continued*); Kellerman, "Uredineous Culture Experiments with *Puccinia sorghi*, 1905"; Arthur, "Cultures of Uredineæ in 1905"; Durand, "*Peziza fusicarpa* Ger. and *Peziza semitosta* B. & C."; Kellerman, "Notes from Mycological Literature — XVII."

Journal of the New York Botanical Garden, February: — Nash, "Notes from the Conservatories"; Wilson, "The American Dragon's Blood Tree."

Journal of the New York Botanical Garden, March: — Nash, "A Guide to the Conservatories."

Journal of the New York Botanical Garden, April: — Robinson, "The History of Botany in the Philippine Islands"; Rusby, "A Floating Orchid (*Habenaria repens*)"; Hollick, "The Type of *Zamites montanensis* Font."

Muhlenbergia, vol. 1, no. 8 (April, 1906): — House, "Nomenclatorial Changes in the Orchidaceæ"; House, "A New Species of *Dichondra*"; [Heller], "Western Species, New and Old — V."

Ohio Naturalist, February: — Schaffner, "Check List of Ohio Trees"; Sumstine, "Notes on *Anthurus borealis*"; Schaffner, "Sexual and Nonsexual Generations."

Ohio Naturalist, March: — Fischer, "New and Rare Ohio Plants"; Moseley, "The Cause of Trembles in Cattle, Sheep and Horses, and of Milk-sickness in People" (*continued*); Schaffner, "The Life Cycle of a Homosporous Pteridophyte"; Jennings, "Some New or Noteworthy Species Reported for Ohio in Recent Botanical Literature"; McOwen, "Key to Ohio Catalpas in Winter Condition."

Ohio Naturalist, April: — Fischer, "Ecological Observations on the Flora of the Shale Bluffs in the Vicinity of Columbus, O."; Claassen, "Corrections to the Key to Liverworts"; Schaffner, "Win-

ter Buds of Ohio Trees and Shrubs"; Van Hock, "*Aschochyta pisi* — a Disease of Seed Peas"; Schaffner, "The Classification of Plants — III"; Morse, "Key to Ohio Alders in Winter Condition"; Stockberger, "Further Notes on *Anthurus borealis*."

[*Publication*] no. 35 of the Manila Bureau of Government Laboratories, issued on January 17, contains part 4 of Merrill's "New or Noteworthy Philippine Plants," "Notes on Cuming's Philippine Plants" by the same author, "Notes on Philippine Grasses" by Hackel, Scitamineæ by Ridley, and Acanthaceæ by Clarke.

The opening numbers of *The Philippine Journal of Science* contain several papers on Cocos.

Plant World, January:—Hitchcock, "Twigs of Woody Plants"; Livingston, "A Simple Method for Experiments with Water Cultures"; Van Hook, "The Hop-hornbeam or Ironwood"; Whittlesey, "The Devil's Tongue."

Plant World, February:—Wiegand, "The Occurrence of Ice in Plant Tissue"; Taylor, "The Georgia Bark or Quinine Tree (*Pinckneya pubens*)"; Koch, "Floral Notes of Foreign Lands."

Plant World, March:—Cannon, "Two Miles Up and Down in an Arizona Desert"; Lloyd, "The Artificial Induction of Leaf Formation in the Ocotillo" [from *Torreyä*]; Koch, "Floral Notes of Foreign Lands" (*conclusion*); Livingston, "Paraffined Wire Pots for Soil Cultures."

Plant World, April:—Leavitt, "The Blooming of an Unusual Orchid"; Niles, "Our Moccasin Flowers and other Orchids at Home"; Blumer, "Two Junipers of the Southwest."

Rhodora, February:—Bartlett, "The Salt-Marsh Iva of New England"; Harper, "Further Remarks on the Coastal Plain Plants of New England, their History and Distribution"; Fernald, "Some American Representatives of *Arenaria verna*"; Evans, "Notes on New England Hepaticæ — IV"; Fernald, "Two Variations of *Carex glareosa*"; Weatherby, "An Extreme Form of *Botrychium virginianum*"; Slade, "Early Flowering of *Hepatica triloba*."

Rhodora, March:—Brainerd, "Hybridism in the Genus *Viola* — III"; Andrews, "Preliminary Lists of New England Plants — XVIII, Sphagnaceæ"; Knight, "Some Noteworthy Plants of the Penobscot Valley"; Riddle, "Contributions to the Cytology of the Entomophthoraceæ — Preliminary Communication"; Smith, "A New Station for *Asplenium ebenoides*."

Rhodora, April:—Fernald, "The Genus *Streptopus* in Eastern America"; Knight, "Notes on some Plants of Bangor, Maine"; Fernald, "The Variations of *Carex paupercula*"; Collins, "Intuition as a Substitute for Reference."

Torrey, February:—Cannon, "The Effects of High Relative Humidity on Plants"; Harris, "Syncarpy in *Martynia lutea*"; Britton, "Notes on West Indian Cruciferae"; Parish, "Teratological Notes"; Murrill, "The Pileate Polyporaceae of Central Maine."

Torrey, March:—Harper, "A November Day in the Upper Part of the Coastal Plain of North Carolina"; Nash, "A New *Begonia* from Bolivia"; Massee, "A Fungus Parasitic on a Moss"; Rusby, "The Home of *Dudleya rusbyi*."

Torrey, April:—Griffiths, "Abnormalities in the Fruiting Habits of *Opuntias*"; Eggleston, "Cratægus of Dutchess County, N. Y."; Van Hook, "A Cause of Freak Peas."

Transactions of the American Microscopical Society, vol. 26:—Burrill, "Micro-organisms of the Soil and Human Welfare"; Clements, "Relation of Leaf-Structure to Physical Factors"; Bessey, "Structure and Classification of the Lower Green Algae."

Transactions of the Kansas Academy of Science, vol. 20, part 1:—Coppedge, "The Effect of Light on *Melilotus alba*"; Sayre, "The Botanical Features of the New United States Pharmacopœia"; Meeker, "A Little Experiment in Flower Making"; Reagan, "Notes on the Flora of the Rosebud Indian Reservation, South Dakota."

Report of the Michigan Academy of Science, vol. 7:—Beal, "Vitality of Seeds"; Dandeno, "'Color' Stimulus and Vital Functions of Plants"; Bach, "Toxic Action of Copper Sulphate upon Certain Algae in the Presence of Foreign Substances"; Loew, "A Study of the Effects of Dilute Solutions of Hydrochloric Acid upon the Radicles of Corn Seedlings"; Pollock, "Notes on *Ganoderma sessile*"; "A Canker of the Yellow Birch and a *Nectria* Associated with it"; "A Species of *Hormodendrum* on *Araucaria*"; Pollock and Kauffman, "Michigan Fungi"; Stearns, "A Study of Plants in Ravines near Adrian"; Transeau, "Climatic Centers and Centers of Plant Distribution"; Bretz, "Winter Field Work in Botany"; Levy, "Anthrax-like Bacilli."